Yufeng Chen

List of Publications by Year in descending order

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40 papers	1,465 citations	623188 14 h-index	360668 35 g-index
41 all docs	41 docs citations	41 times ranked	383 citing authors

#	Article	IF	Citations
1	Design of a Maximally Permissive Liveness- Enforcing Petri Net Supervisor for Flexible Manufacturing Systems. IEEE Transactions on Automation Science and Engineering, 2011, 8, 374-393.	3.4	237
2	Design of a maximally permissive liveness-enforcing supervisor with a compressed supervisory structure for flexible manufacturing systems. Automatica, 2011, 47, 1028-1034.	3.0	196
3	Optimal Supervisory Control of Flexible Manufacturing Systems by Petri Nets: A Set Classification Approach. IEEE Transactions on Automation Science and Engineering, 2014, 11, 549-563.	3.4	144
4	New Petri Net Structure and Its Application to Optimal Supervisory Control: Interval Inhibitor Arcs. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 1384-1400.	5.9	112
5	Compact Supervisory Control of Discrete Event Systems by Petri Nets With Data Inhibitor Arcs. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 364-379.	5.9	111
6	On the enforcement of a class of nonlinear constraints on Petri nets. Automatica, 2015, 55, 116-124.	3.0	101
7	Behaviorally Optimal and Structurally Simple Liveness-Enforcing Supervisors of Flexible Manufacturing Systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 615-629.	3.4	99
8	Deadlock recovery for flexible manufacturing systems modeled with Petri nets. Information Sciences, 2017, 381, 290-303.	4.0	97
9	On structural minimality of optimal supervisors for flexible manufacturing systems. Automatica, 2012, 48, 2647-2656.	3.0	65
10	Nonpure Petri Net Supervisors for Optimal Deadlock Control of Flexible Manufacturing Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 252-265.	5.9	50
11	Maximally permissive liveness-enforcing supervisor with lowest implementation cost for flexible manufacturing systems. Information Sciences, 2014, 256, 74-90.	4.0	34
12	On Algebraic Identification of Critical States for Deadlock Control in Automated Manufacturing Systems Modeled With Petri Nets. IEEE Access, 2019, 7, 121332-121349.	2.6	30
13	Design of Optimal Petri Net Supervisors for Flexible Manufacturing Systems via Weighted Inhibitor Arcs. Asian Journal of Control, 2018, 20, 511-530.	1.9	21
14	An Efficient Deadlock Recovery Policy for Flexible Manufacturing Systems Modeled With Petri Nets. IEEE Access, 2019, 7, 11785-11795.	2.6	17
15	On Nonexistence of a Maximally Permissive Liveness-Enforcing Pure Net Supervisor. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 29-37.	5.9	12
16	Most permissive liveness-enforcing Petri net supervisors for flexible manufacturing systems. International Journal of Production Research, 2012, 50, 6357-6371.	4.9	11
17	An Efficient Method of Deadlock Detection and Recovery for Flexible Manufacturing Systems by Resource Flow Graphs. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1707-1718.	3.4	11
18	Computation of Minimal Siphons in Petri Nets by Using Binary Decision Diagrams. Transactions on Embedded Computing Systems, 2013, 12, 1-15.	2.1	8

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19	Maximally Permissive Petri Net Supervisors for Flexible Manufacturing Systems with Uncontrollable and Unobservable Transitions. Asian Journal of Control, 2014, 16, 1646-1658.	1.9	8
20	Optimal Petri net supervisor synthesis for forbidden state problems using marking mask. Information Sciences, 2019, 505, 183-197.	4.0	8
21	Optimal Petri Net Supervisors of Discrete Event Systems via Weighted and Data Inhibitor Arcs. IEEE Access, 2018, 6, 8245-8257.	2.6	7
22	On Hierarchical Construction of the State Space of an Automated Manufacturing System Modeled With Petri Nets. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3613-3627.	5.9	7
23	Partial Reachability Graph Analysis of Petri Nets for Flexible Manufacturing Systems. IEEE Access, 2020, 8, 227925-227935.	2.6	7
24	Most permissive liveness-enforcing Petri net supervisors for discrete event systems via linear monitors. ISA Transactions, 2019, 92, 145-154.	3.1	6
25	Monitor design with multiple self-loops for maximally permissive supervisors. ISA Transactions, 2016, 61, 129-140.	3.1	5
26	Robust Deadlock Control for Automated Manufacturing Systems Based on the Max-Controllability of Siphons. IEEE Access, 2019, 7, 88579-88591.	2.6	5
27	Petri-Net-Based Scheduling of Flexible Manufacturing Systems Using an Estimate Function. Symmetry, 2022, 14, 1052.	1.1	5
28	Corrections to â€œDesign of a Maximally Permissive Liveness-Enforcing Petri Net Supervisor for Flexible Manufacturing Systemsâ€•[Apr 11 374-393]. IEEE Transactions on Automation Science and Engineering, 2012, 9, 455-455.	3.4	4
29	On calculation of state space for linear system of simple sequential processes with resources. Advances in Mechanical Engineering, 2017, 9, 168781401770208.	0.8	4
30	Synthesis of Liveness-Enforcing Petri Net Supervisors Based on a Think-Globally-Act-Locally Approach and Vector Covering for Flexible Manufacturing Systems. IEEE Access, 2017, 5, 16349-16358.	2.6	4
31	On Optimal Supervisor Design for Discrete-Event Systems Modeled With Petri Nets via Constraint Simplification. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3404-3418.	5.9	4
32	Design of Optimal Supervisors for the Enforcement of Nonlinear Constraints on Petri Nets. IEEE Transactions on Automation Science and Engineering, 2023, 20, 611-623.	3.4	4
33	On behaviorally and structurally optimal supervisor to solve forbidden state problems in discrete event systems. , 2011, , .		2
34	Equivalent Transformation of Nonlinear Constraints to Linear Constraints in Petri Nets. Mathematical Problems in Engineering, 2015, 2015, 1-11.	0.6	2
35	State Space Characterization of Disjunctive Single-Unit Resource Allocation Systems. IEEE Access, 2018, 6, 51515-51527.	2.6	2
36	Optimal Petri net supervisor with lowest implemental cost for flexible manufacturing systems. , 2011, , .		1

#	Article	IF	Citations
37	On Computation Reduction of Liveness-Enforcing Supervisors. IEEE Access, 2017, 5, 14775-14786.	2.6	1
38	Computation of resource circuits of Petri nets by using binary decision diagrams. , 2013, , .		0
39	Corrections to â€œNonpure Petri Net Supervisors for Optimal Deadlock Control of Flexible Manufacturing Systemsâ€•[Mar 13 252-265]. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 804-804.	5.9	0
40	Maximally Permissive Petri Net Supervisors with a Novel Structure. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 80-85.	0.4	0